



# TRC521 CB Radio

21-1711

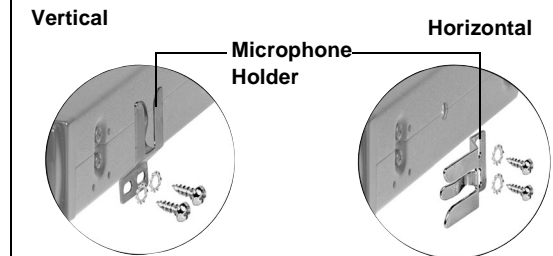
## Quick Start Guide

for installing, setting up and using your new product

### Step One

#### Attach Microphone Holder

You can attach the microphone holder horizontally or vertically to either side of the CB as shown.



To attach the microphone holder somewhere else, follow these steps.

1. Use the microphone holder as a template to mark the positions for the mounting screws at the desired mounting location.
2. Drill a hole at the marked position. Do not drill into anything behind the mounting surface.
3. Attach the microphone holder to the mounting surface using the supplied (small) machine screws and lockwashers.

### Step Two

#### Connect the Microphone

1. Align the holes inside the microphone's plug with the pins in the microphone jack and insert the plug.
2. Turn the plug's locking nut clockwise to secure it.
3. Slide the microphone onto the holder.
4. To disconnect the microphone, unscrew the locking nut and pull the microphone plug toward you. Do not pull the microphone cable.



**SQUELCH** — Rotate to reduce background noise (CB sensitivity).

**OFF/VOLUME** — Rotate towards **VOLUME** (clockwise) to turn on your CB, and then adjust to desired listening level. Rotate towards **OFF** (counterclockwise) to turn off your CB.

**CB/WX** — Slide to **CB** to use and listen to citizen's band radio. Slide to **WX** to listen to local and national weather broadcasts.

Connect the supplied microphone here.

#### Mounting Bracket

### Step Three

#### Mount the CB

Find a convenient location in your vehicle to mount your CB. If you are uncomfortable mounting the CB yourself, consult with your vehicle service center or automotive dealer for assistance. ⚠

Select a mounting location where:

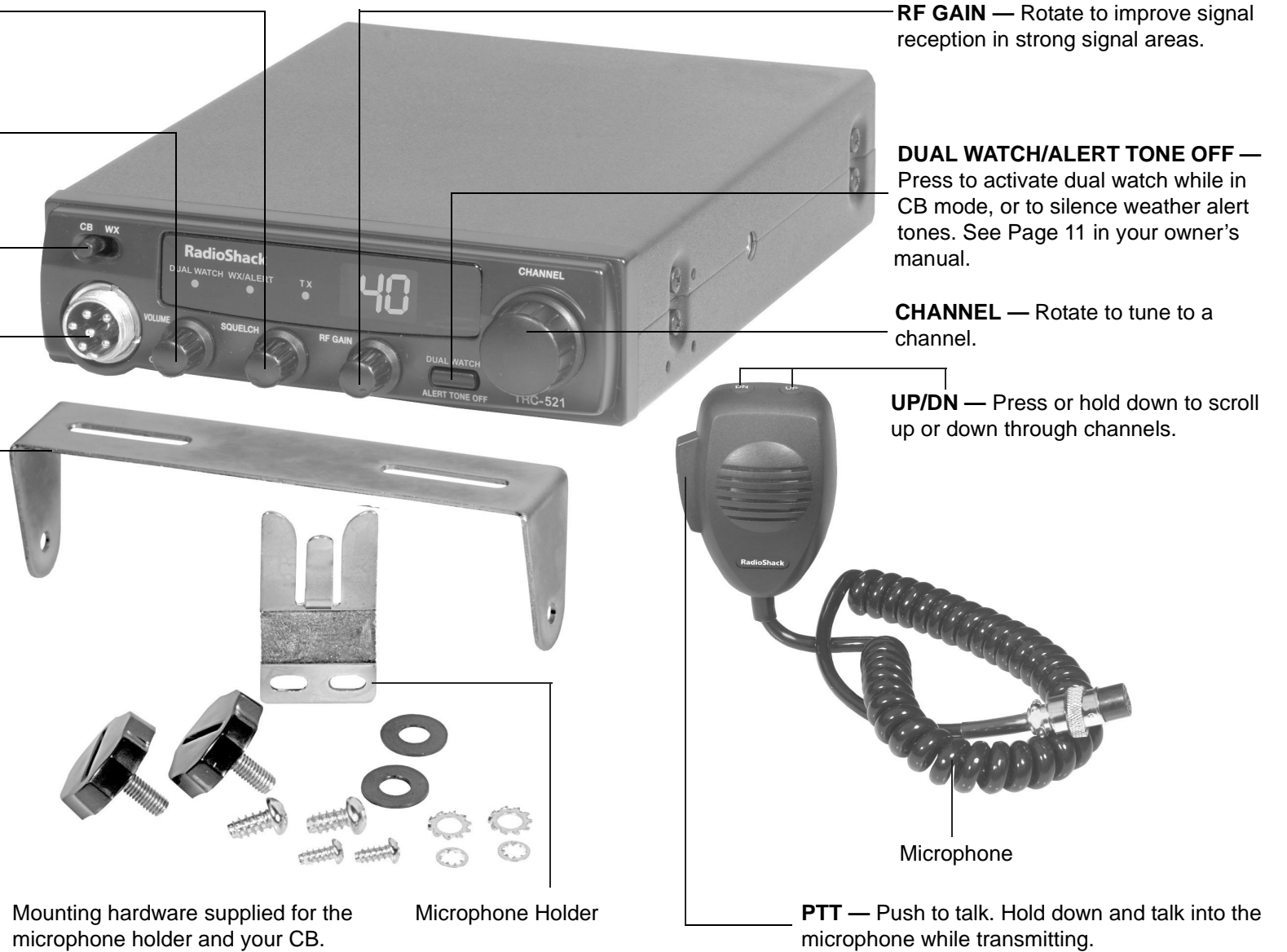
- you can easily reach the CB.
- wires and cables are clear of the vehicle's pedals or other moving parts.
- the CB is not directly in front of heating vents.
- all wires and cables can reach their connection points.

1. Use the mounting bracket as a template to mark the positions for the screws on the mounting surface.
2. At the marked positions, drill a hole slightly smaller than the mounting screws. Do not drill into objects behind the mounting surface.
3. Secure the mounting bracket to the mounting surface with the supplied screws and lockwashers.



4. Attach the CB to the mounting bracket with the supplied rubber washers and mounting knobs.

**⚠ WARNING ⚠**  
Mount the CB securely to avoid damage to the CB or vehicle, and to avoid injury to anyone in the vehicle during sudden starts or stops.



**RF GAIN** — Rotate to improve signal reception in strong signal areas.

**DUAL WATCH/ALERT TONE OFF** — Press to activate dual watch while in CB mode, or to silence weather alert tones. See Page 11 in your owner's manual.

**CHANNEL** — Rotate to tune to a channel.

**UP/DN** — Press or hold down to scroll up or down through channels.

**PTT** — Push to talk. Hold down and talk into the microphone while transmitting.

Mounting hardware supplied for the microphone holder and your CB.

Microphone Holder

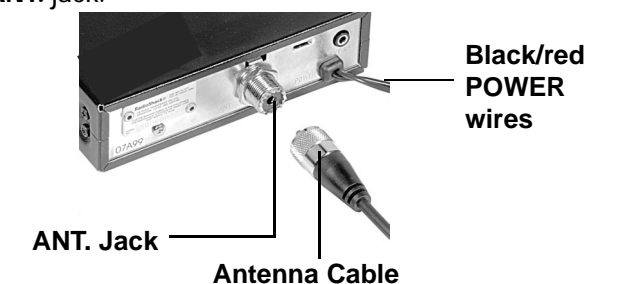
### Step Four

#### Connect an Antenna

There are many different types of CB antennas for mobile CBs. Each type has its own benefits, so choose the one that best meets your needs. Your local RadioShack sells a wide variety of antennas. When choosing an antenna, keep in mind that for the best performance you should mount the antenna:

- as high as possible in the vehicle.
- as far as possible from sources of electrical noise.
- vertically.

1. Follow the antenna's mounting instructions.
2. Route the antenna cable to the CB radio and connect it to the **ANT.** jack.



### Step Five

#### Connect to Vehicle Battery Power

1. Connect the CB's red **POWER** wire to a terminal in your vehicle's fuse box that has power only when the ignition is in the ACC (accessory) or ON position.
2. Connect the CB's black **POWER** wire to a metal part of the vehicle's frame (chassis ground). Do not connect the black wire to a non-metallic (plastic) part, or to any part insulated from the vehicle's chassis by a non-metallic part.

## Step Six

### Receiving and Transmitting

We recommend you try receiving transmissions before you transmit.

#### Receiving

1. Rotate **OFF/VOLUME** towards **OFF** until it clicks to turn off the CB.
2. Slide **CB/WX** to **CB**.
3. Rotate **SQUELCH** fully counterclockwise.
4. Rotate **RF GAIN** fully clockwise.
5. Rotate **OFF/VOLUME** clockwise to turn on the CB. The display lights and the channel number appears. An alert sounds if a weather alert signal is detected.
6. To decrease CB sensitivity so you do not hear weak, distant signals, slowly rotate **SQUELCH** clockwise until the hissing stops. To increase sensitivity and to receive very weak signals, rotate **SQUELCH** counterclockwise.
7. Rotate **RF GAIN** clockwise to optimize reception (incoming signal strength). Or, rotate it counterclockwise to decrease signal strength.
8. To tune to a channel, rotate **CHANNEL** on the radio, or press **UP** or **DN** on the microphone. To quickly scroll through channels in either direction, hold down **UP** or **DN** until you reach the desired channel.
9. Adjust **VOLUME** to a comfortable listening level.
10. To turn off the CB, rotate **OFF/VOLUME** counterclockwise to **OFF** until it clicks.

#### Transmitting

1. To transmit, hold down **PTT** on the microphone. Hold the microphone about 2–3 inches from your mouth and speak in a normal tone of voice. **TX** lights to indicate transmission.
2. When you finish transmitting, release **PTT**. **TX** turns off.
3. To turn off the CB, turn **OFF/VOLUME** counterclockwise to **OFF** until it clicks.

## Step Seven

### Listening to the Weather Band

The National Oceanic and Atmospheric Administration (NOAA) broadcasts local forecast and regional weather information on one or more of seven channels in the US. Your CB is preprogrammed with all seven frequencies.

Channel	Frequency (MHz)
WX1	162.400
WX2	162.425
WX3	162.450
WX4	162.475
WX5	162.500
WX6	162.525
WX7	162.550

To listen to a weather broadcast, slide **CB/WX** to **WX**. Rotate **CHANNEL** to select a frequency.

### Usage Tips

- Only rotate **SQUELCH** until the hissing stops. If you continue to rotate it clockwise, you will be unable to receive any signals.
- You may want to purchase an SWR (Standard Wave Ratio) meter to measure your range and signal strength. This will enable you to adjust your antenna for maximum range, and determine the best position for **RF GAIN**. See your SWR meter owner's manual for instruction on how to use it.
- You cannot transmit when **CB/WX** is set to **WX**.
- Because of atmospheric conditions, you may receive signals that do not contain information relevant to the emergency level. This is normal.
- The radio sounds an alert regardless of the channel setting.
- The CB will not sound an alert while you are transmitting.
- If you are in a rural or fringe area, your radio might be triggered by an alert broadcast in one area, but not be triggered if you travel to another area (even close by).
- Most 12-volt DC power supplies plug into a standard AC outlet to produce DC power. Before connecting your CB to a 12-volt DC power supply, read and follow the instructions included with the power supply.

## Common 10-Codes

Citizen's Band users have adopted the following codes for standard questions and answers.

Code	Frequency
10-1	Receiving poorly.
10-2	Receiving well.
10-3	Stop transmitting.
10-4	OK, message received.
10-5	Relay message.
10-6	Busy, please stand by.
10-7	Out of service.
10-8	In service
10-9	Repeat message.
10-10	Transmission completed, standing by.
10-11	Talking too rapidly.
10-12	Visitors present.
10-13	Advise Weather/Road conditions.
10-17	Urgent business.
10-18	Anything for us?
10-19	Nothing for you. Return to base.
10-20	My location is_____.
10-21	Call by telephone.
10-22	Report in person to_____.
10-23	Please stand by.
10-25	Can you contact_____.
10-26	Disregard last information.
10-27	I am moving to channel_____.
10-28	Identify your station.
10-32	I will give you a radio check.
10-33	Emergency traffic.
10-36	Correct time is_____.
10-37	Wrecker needed at_____.
10-38	Ambulance needed at_____.
10-41	Please turn to channel_____.
10-42	Traffic accident at_____.
10-43	Traffic tie-up at_____.
10-50	Break channel.
10-62	Unable to copy; use telephone.
10-70	Fire at_____.

## Accessories

Depending on how and where you plan to use your CB radio, the following accessories can be used with your CB radio for enhanced functionality and power. Visit your local RadioShack store to browse for a variety of CB accessories.

*CB Antenna  
SWR Meter  
8-ohm External Speaker  
12V DC Power Supply  
Base Station Antenna  
Coaxial Antenna Cable and Connectors  
Antenna Connectors  
2-Amp Glass Fuse (for fuse replacement)*

### Limited 90-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state

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